

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/823,203A  
Source: /FW/6  
Date Processed by STIC: 6/13/05

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IFW16

## RAW SEQUENCE LISTING

DATE: 06/13/2005

PATENT APPLICATION: US/10/823,203A

TIME: 12:01:57

Input Set : A:\AeSCP-2REVISED.ST25.txt

Output Set: N:\CRF4\06132005\J823203A.raw

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3 <110> APPLICANT: LAN, Que
4 KREBS, Kendall C.
6 <120> TITLE OF INVENTION: STEROL CARRIER PROTEIN-2 FROM THE MOSQUITO, AEDES AEGYPTI
8 <130> FILE REFERENCE: 054030-0056
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/823,203A
C--> 10 <141> CURRENT FILING DATE: 2004-04-13
10 <150> PRIOR APPLICATION NUMBER: US 60/465,648
11 <151> PRIOR FILING DATE: 2003-04-25
13 <160> NUMBER OF SEQ ID NOS: 13
15 <170> SOFTWARE: PatentIn version 3.3
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 333
19 <212> TYPE: DNA
20 <213> ORGANISM: Aedes aegypti
22 <400> SEQUENCE: 1
23 atgtctctga agtccgacga agttttcgcc aagatcgcta agcgtctgga gagcatcgac 60
25 cccgccaacc gtcagggtcga gcacgtgtac aagttcagaa tcacccaggg tggcaagggt 120
27 gtcaagaact gggttatgga tctgaagaac gtcaagctgg tcgagtcgga cgatgccgcc 180
29 gaggccaccc tgaccatgga ggatgacatc atgttcgcca tcggaaccgg tgccctgccc 240
31 gccaaaggaag ccatggccca ggacaagatg gaagtcgatg gacaagttga gctgatcttc 300
33 ctgctggagc cattcattgc ctcgctgaag taa 333
36 <210> SEQ ID NO: 2
37 <211> LENGTH: 571
38 <212> TYPE: DNA
39 <213> ORGANISM: Aedes aegypti
41 <400> SEQUENCE: 2
42 gatcagtttc gagttgtcca cttgaagttc tgttgaaaaa ccaaaccacc ctccaaaatg 60
44 tctctgaagt cgcagcaagt ttctgccaaag atcgctaagc gtctggagag catcgacccc 120
46 gccaacctgc aggtcgagca cgtgtacaag ttcagaatca ccagggtgg caaggttgtc 180
48 aagaactggg ttatggatct gaagaacgtc aagctggctg agtccgacga tgccgccgag 240
50 gccaccctga ccatggagga tgacatcatg ttcgccatcg gaaccggtgc cctgcccgcc 300
52 aaggaagcca tggcccagga caagatggaa gtcgatggac aagttgagct gatcttctg 360
54 ctggagccat tcattgcctc gctgaagtaa aatgcgtgac gcggcccttg tgaataccaa 420
56 tcattgcatg tgcttgccctc gtttaatcag agcgaatgtc atgtcatcca aactactgtg 480
58 ttgtaactta ttattttcct gtatcgcgat ttcggcatca ttaaaacgta ttttgtaaag 540
60 taaaaaaaaa aaaaaaaaaa aaaaaaaaaa a 571
63 <210> SEQ ID NO: 3
64 <211> LENGTH: 110
65 <212> TYPE: PRT
66 <213> ORGANISM: Aedes aegypti
68 <400> SEQUENCE: 3
70 Met Ser Leu Lys Ser Asp Glu Val Phe Ala Lys Ile Ala Lys Arg Leu
71 1 5 10 15

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74 Glu Ser Ile Asp Pro Ala Asn Arg Gln Val Glu His Val Tyr Lys Phe
75          20          25          30
78 Arg Ile Thr Gln Gly Gly Lys Val Val Lys Asn Trp Val Met Asp Leu
79          35          40          45
82 Lys Asn Val Lys Leu Val Glu Ser Asp Asp Ala Ala Glu Ala Thr Leu
83          50          55          60
86 Thr Met Glu Asp Asp Ile Met Phe Ala Ile Gly Thr Gly Ala Leu Pro
87 65          70          75          80
90 Ala Lys Glu Ala Met Ala Gln Asp Lys Met Glu Val Asp Gly Gln Val
91          85          90          95
94 Glu Leu Ile Phe Leu Leu Glu Pro Phe Ile Ala Ser Leu Lys
95          100          105          110
98 <210> SEQ ID NO: 4
99 <211> LENGTH: 123
100 <212> TYPE: PRT
101 <213> ORGANISM: Anopheles gambiae
103 <400> SEQUENCE: 4
105 Tyr Cys Pro Ser Ala Gln Arg Val Arg Gln Leu Leu Met Ala Leu Lys
106 1          5          10          15
109 Ser Asp Pro Val Phe Glu Arg Ile Ala Lys Arg Leu Glu Ser Ile Asp
110          20          25          30
113 Pro Asn Asn Arg Gln Val Gln Gln Val Tyr Lys Phe Arg Ile Gln Gln
114          35          40          45
117 Asn Gly Thr Val Val Lys Thr Trp Val Leu Asp Leu Lys Ala Val Lys
118          50          55          60
121 Leu Thr Glu Gly Asp Gly Pro Ala Glu Ala Thr Leu Thr Met Glu Asp
122 65          70          75          80
125 Asp Ile Met Phe Ala Ile Gly Thr Gly Ala Met Pro Ala Lys Glu Ala
126          85          90          95
129 Leu Ala Gln Lys Lys Leu Asp Val Glu Gly Gln Val Glu Leu Ile Phe
130          100          105          110
133 Leu Leu Glu Pro Phe Ile Ala Ser Leu Lys Lys
134          115          120
137 <210> SEQ ID NO: 5
138 <211> LENGTH: 123
139 <212> TYPE: PRT
140 <213> ORGANISM: Rattus norvegicus
142 <400> SEQUENCE: 5
144 Ser Ser Ala Gly Asp Gly Phe Lys Ala Asn Leu Ile Phe Lys Glu Ile
145 1          5          10          15
148 Glu Lys Lys Leu Glu Glu Glu Gly Glu Glu Phe Val Lys Lys Ile Gly
149          20          25          30
152 Gly Ile Phe Ala Phe Lys Val Thr Asp Gly Pro Gly Lys Val Glu Ala
153          35          40          45
156 Thr Trp Val Val Asp Val Lys Asn Gly Lys Gly Ser Val Leu Pro Asp
157          50          55          60
160 Ser Lys Asp Lys Ala Asp Cys Thr Ile Thr Met Ala Asp Ser Asp Leu
161 65          70          75          80
164 Leu Ala Leu Met Thr Gly Lys Met Asn Pro Gln Ser Ala Phe Phe Gln

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165          85          90          95
168 Gly Lys Leu Lys Ile Ala Gly Asn Met Gly Leu Ala Met Lys Leu Gln
169          100          105          110
172 Ser Leu Gln Leu Gln Pro Lys Asp Ala Lys Leu
173          115          120
176 <210> SEQ ID NO: 6
177 <211> LENGTH: 123
178 <212> TYPE: PRT
179 <213> ORGANISM: Homo sapiens
181 <400> SEQUENCE: 6
183 Ser Ser Ala Ser Asp Gly Phe Lys Ala Asn Leu Val Phe Lys Glu Ile
184 1          5          10          15
187 Glu Lys Lys Leu Glu Glu Glu Gly Glu Gln Phe Val Lys Lys Ile Gly
188          20          25          30
191 Gly Ile Phe Ala Phe Lys Val Thr Lys Gly Pro Gly Lys Val Val Ala
192          35          40          45
195 Thr Trp Val Val Asp Val Lys Asn Gly Lys Gly Ser Val Leu Pro Asn
196          50          55          60
199 Ser Asp Lys Lys Ala Asp Cys Thr Ile Thr Met Ala Asp Ser Asp Phe
200 65          70          75          80
203 Leu Ala Leu Met Thr Gly Lys Met Asn Pro Gln Ser Ala Phe Phe Gln
204          85          90          95
207 Gly Lys Leu Lys Thr Thr Gly Asn Met Gly Leu Ala Met Lys Leu Gln
208          100          105          110
211 Asn Leu Gln Leu Gln Pro Gly Asn Ala Lys Leu
212          115          120
215 <210> SEQ ID NO: 7
216 <211> LENGTH: 124
217 <212> TYPE: PRT
218 <213> ORGANISM: Drosophila melanogaster
220 <400> SEQUENCE: 7
222 Asp Gly Phe Lys Val Ala Pro Leu Leu Lys Leu Leu Glu Gln Ala Met
223 1          5          10          15
226 Gln Glu Asp Lys Asp Asn Leu Ile Glu Lys Val Arg Ala Ile Tyr Gly
227          20          25          30
230 Phe Lys Val Asn Gln Gly Pro Asn Lys Gln Thr Gly Phe Trp Val Ile
231          35          40          45
234 Asp Ala Lys Gln Gly Lys Gly Lys Ile Ile Phe Asn Gly Thr Gln Lys
235          50          55          60
238 Cys Asp Val Thr Phe Ile Ile Ser Asp Asp Asp Val Phe Glu Leu Leu
239 65          70          75          80
242 Thr Gly Lys Leu Pro Gln Lys Ala Phe Phe Gln Gly Lys Ile Lys
243          85          90          95
246 Ile Gln Gly Asn Met Gly Phe Ala Met Lys Leu Met Asp Leu Gln Asp
247          100          105          110
250 Pro Pro Lys Ala Gly Ser Arg Leu Arg Ser Lys Leu
251          115          120
254 <210> SEQ ID NO: 8
255 <211> LENGTH: 115

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256 <212> TYPE: PRT
257 <213> ORGANISM: Drosophila melanogaster
259 <400> SEQUENCE: 8
261 Met Ser Leu Gln Ser Asp Ala Val Phe Gln Lys Ile Ile Asp Gly Leu
262 1 5 10 15
265 Lys Glu Asn Glu Ala Lys Ala Lys Ala Val Asn Gly Val Phe Leu Tyr
266 20 25 30
269 Lys Ile Thr Lys Asp Gly Asp Val Ala Asp Glu Trp Thr Leu Asp Cys
270 35 40 45
273 Lys Asn Ala Lys Ala Tyr Glu Gly Pro Ala Gln Gly Ile Lys Val Asp
274 50 55 60
277 Thr Thr Leu Thr Val Ala Asp Glu Asp Met Val Asp Ile Ala Leu Gly
278 65 70 75 80
281 Lys Leu Asn Pro Gln Ala Ala Phe Met Lys Gly Lys Leu Lys Ile Ala
282 85 90 95
285 Gly Asn Ile Met Leu Thr Gln Lys Leu Ala Pro Leu Leu Lys Thr Asp
286 100 105 110
289 Ala Lys Leu
290 115
293 <210> SEQ ID NO: 9
294 <211> LENGTH: 107
295 <212> TYPE: PRT
296 <213> ORGANISM: Drosophila melanogaster
298 <400> SEQUENCE: 9
300 Met Lys Ser Asp Glu Ile Ile Glu Lys Ile Arg Asn Lys Leu Lys Glu
301 1 5 10 15
304 Ser Asp Pro Ala Arg Arg Thr Val Val Asn Thr Phe Gln Phe Asn Phe
305 20 25 30
308 Thr Asp Ala Asp Gly Asn Leu Ile Lys Asn Met Ala Met Asp Ile Tyr
309 35 40 45
312 Glu Gly Ser Ala Thr Ser Val Asp Ala Gln Val Thr Ile Ser Asp Glu
313 50 55 60
316 Asp Phe Tyr Leu Val Gly Thr Lys Gln Lys Thr Phe Gln Glu Val Leu
317 65 70 75 80
320 Gln Gln Glu Asp Ala Lys Ile Asp Gly Asp Glu Glu Ala Ile Asn Lys
321 85 90 95
324 Met Leu Glu Lys Phe Arg Ile Asn Ser Gln Asn
325 100 105
328 <210> SEQ ID NO: 10
329 <211> LENGTH: 100
330 <212> TYPE: PRT
331 <213> ORGANISM: Caenorhabditis elegans
333 <400> SEQUENCE: 10
335 Val Ala Ser Leu Ala Met Asp Glu His Leu Val Arg Leu Ile Gly Arg
336 1 5 10 15
339 Val Phe Gln Ile Asn Cys Lys Asp Ile Glu Pro Ile Cys Ile Asp Leu
340 20 25 30
343 Lys His Gly Ser Gly Ser Ala Tyr Lys Gly Thr Ser Leu Asn Pro Asp
344 35 40 45

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347 Val Val Phe Glu Thr Ser Leu Glu Val Phe Leu Lys Ile Leu Thr Lys
348      50                      55                      60
351 Glu Val Ser Pro Val Thr Val Tyr Ala Asn Gly Asn Leu Lys Val Lys
352 65                      70                      75                      80
355 Gly Ser Ile Gln Asp Ala Met Gln Leu Lys His Leu Val Glu Arg Met
356                      85                      90                      95
359 Ser Asp Trp Leu
360      100
363 <210> SEQ ID NO: 11
364 <211> LENGTH: 128
365 <212> TYPE: PRT
366 <213> ORGANISM: Saccharomyces cerevisiae
368 <400> SEQUENCE: 11
370 Met Ser Val Glu Val Asp Gly Phe Asn Ala Ser Pro Leu Phe Lys Glu
371 1      5                      10                      15
374 Leu Asn Glu Gly Leu Ala Lys Asp Ala Asp Ala Gln Glu Ala Val Lys
375      20                      25                      30
378 Ala Val Asn Ala Ile Ile Val Ile Thr Leu Lys Asn Lys Glu Gly Lys
379      35                      40                      45
382 Glu Gln Ser Trp Val Leu Asp Leu Lys Lys Ala Gly Thr Leu Ala Lys
383      50                      55                      60
386 Val Asp Gly Ala Val Pro Lys Gly Asp Val Gln Leu Phe Leu Lys Asp
387 65                      70                      75                      80
390 Val Asp Phe Val Lys Leu Ala Asn Asn Lys Val Asn Gly Gln Glu Leu
391      85                      90                      95
394 Glu Phe Met Asn Gly Lys Leu Lys Val Lys Gly Asn Met Met Lys Ala
395      100                      105                      110
398 Thr Ala Ile Glu Ser Val Phe Lys Lys Leu Asp Pro Arg Pro Lys Leu
399      115                      120                      125
402 <210> SEQ ID NO: 12
403 <211> LENGTH: 18
404 <212> TYPE: DNA
405 <213> ORGANISM: Aedes aegypti
407 <400> SEQUENCE: 12
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411 <210> SEQ ID NO: 13
412 <211> LENGTH: 14
413 <212> TYPE: DNA
414 <213> ORGANISM: Aedes aegypti
416 <400> SEQUENCE: 13
417 ttacttcagc gagg

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**VERIFICATION SUMMARY**

DATE: 06/13/2005

PATENT APPLICATION: US/10/823,203A

TIME: 12:01:58

Input Set : A:\AeSCP-2REVISED.ST25.txt

Output Set: N:\CRF4\06132005\J823203A.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date